

CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

30 May, 1991

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Building, Suite 350 Salt Lake City, Utah 84180-1203

Ref:

Application for Permit to Drill Crane 35-H Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Crane Well No. 35-H in San Juan County, Utah. This well will be drilled as part of an ongoing exploration and development program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the well has been located in a position which will allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements. Chuska Energy controls the acreage surrounding the proposed site, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

Larry G. Sessions
Operations Manager

LGS/cswh

File: C:\WP51\CRANE.35H\APDCOVER

encl.

DECENTED

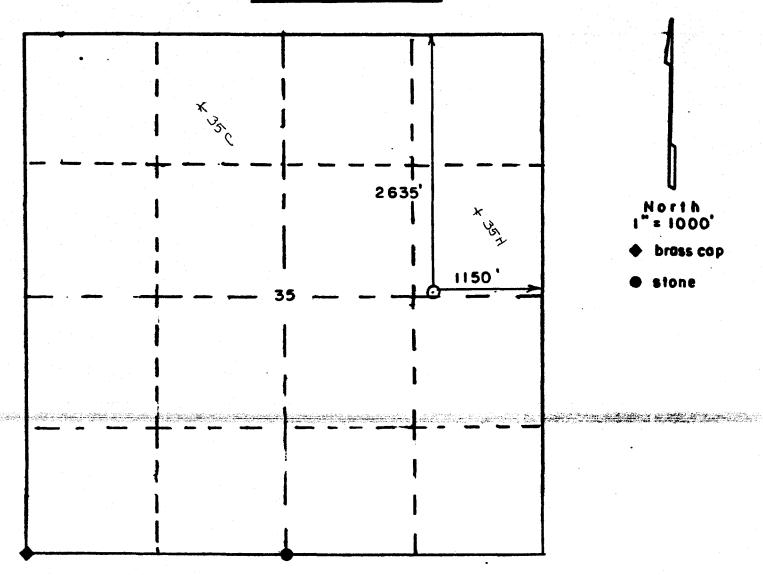
JUN 0 3 1991

DIVISION OF OIL GAS & MINING

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(This space for Federal or State office use) PERHIT NO. 43-037-31600		APPROVAL DATE	• • •	VED BY THE STATE
APPROVED BY	TITLE _			GAS, AND MINING
*(Sec Title 18 U.S.C. Section 1991, makes it a crime fo United States may faise, fictitious or fraudulent	e Instruct	ions On Reverse	Side)	ACINO 65-3-3

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Crane 35 - H

2635'FNL & 1150'FEL

Section 35, T.41 S., R.25 E., SLM

San Juan County, UT

4651' ground elevation

State plane coordinates from seismic control:

X = 2,688,341 Y = 195,163

SP 686 line 400-19

The above is true and correct to my knowledge and be in the.

Mar 2018 1. See and correct to my minorization

22 May 1991

Gerald G. Huddleston S

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Crane Well No. 35-H Section 35, Township 41S, Range 25E 2635' FNL, 1150' FEL San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,651' GR.

3. ESTIMATED FORMATION TOPS

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: 6

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	Weight	Grade	Coupling
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	5,714'	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft^3) Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume calculated at 100% excess over annular volume.

Production Cementing:

First Stage

T.D. to 3,500' (stage collar @ ± 3,500'). Lead with 161 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. <u>Tail</u> with 178 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 502 ft³. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole. WOC 4 hours between stages.

Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft/sk. $\underline{\text{Tail}}$ with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 772 ft³. Cement volumes calculated at 30% excess in open hole.

Note:

Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. <u>BLOWOUT PREVENTER</u> (See attached schematics)

As abnormal pressure is not anticipated, a 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the attached Exhibits "A" and "B". This will be a 10" x 900 Series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3,000'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps as necessary for hole cleaning.

3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 cc or less prior to coring, logging or DSTs.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on the rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from T.D. to 4,500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. His gas is not anticipated, however regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated to be 17 days. Anticipated spud date is 10-25-91.

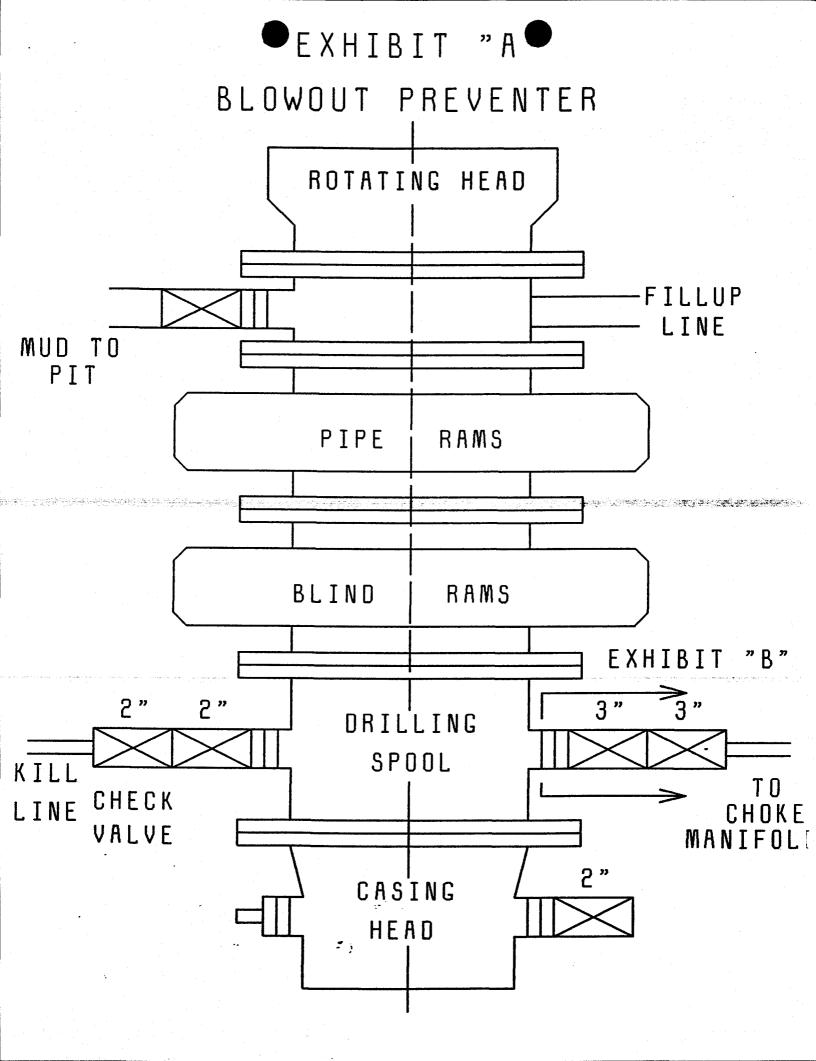
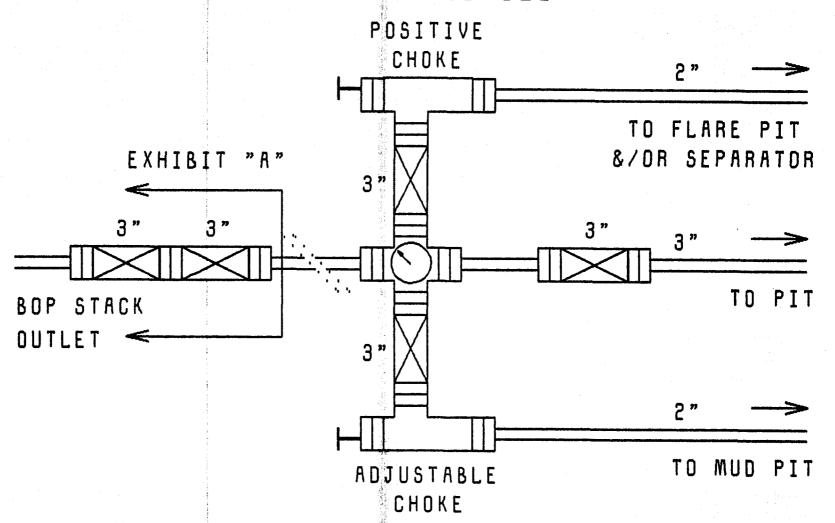


EXHIBIT "B" CHOKE MANIFOLD



DETAILED DRILLING PROGRAM

DATE:

29 May. 1991

WELL NAME:

Crane

WELL NO.: 35-H

LOCATION:

Section 35, Township 41S, Range 25E

2635' FNL, 1150' FEL San Juan County, Utah

ELEVATION:

4,651' GR

TOTAL DEPTH:

5,714' KB

PROJECTED HORIZON:

Primary target is Desert Creek at 5,472'.

Secondary target is Lower Ismay at 5,424'.

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.

- 2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
- 3. Drill 12 1/4" hole to \pm 500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1° at 500'. Deviation surveys will be run at least at 250' and at casing point.
- 4. Run 8 5/8", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft³) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
- 5. W.O.C. a minimum of 4 hours prior to nippling up BOP stack and related equipment. See BOP schematics for details.
- 6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 min.
- 7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
- 8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per wellsite geologist's recommendation.

- 9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to T.D. Set stage cementing collar at ± 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing in two stages as per cementing program in 10-point Drilling Plan.
- 10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
- 11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

Crane Well No. 35-H
Section 35, Township 41S, Range 25E
2635' FNL, 1150' FEL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and Navajo Tribal requirements.

Crane Well No. 35-H Section 35, Township 41S, Range 25E 2635' FNL, 1150' FEL San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Aneth. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that approximately 1,200' of new road will need to be constructed to the location pad.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION MATERIALS

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. The reserve pit will be lined as required, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a north east/south west trend and will require up to 42' of cut in the eastern corner of the location pad and up to 10' of fill in the western corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87401
LARRY G. SESSIONS

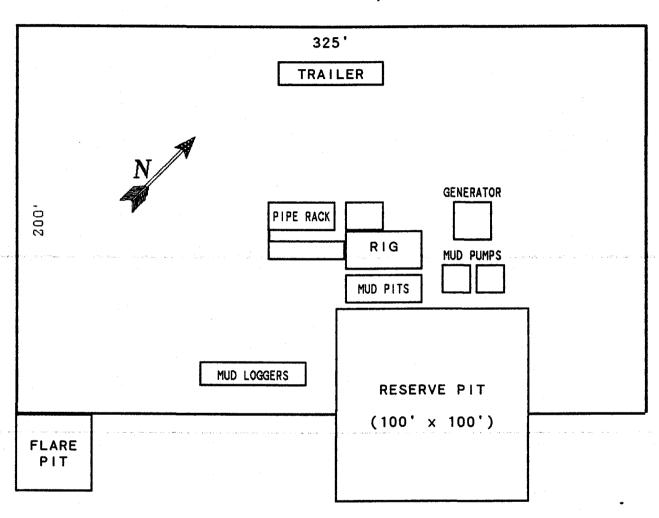
12. CERTIFICATION

I hereby certify that either I, or persons under my direct supervision have inspected the proposed drill site and access route: that I am familiar with the conditions which presently exist: that the statements made in this plan are, to the best of my knowledge, true and correct and that the work planned will be performed by Chuska Energy, or its sub-contractors, in conformity with the terms and conditions under which it is approved.

LARRY Q. SESSIONS Operations Manager

CRANE 35-H

2635' FNL, 1150' FEL
SECTION 35, TOWNSHIP 41S, RANGE 25E
SAN JUAN COUNTY, UTAH



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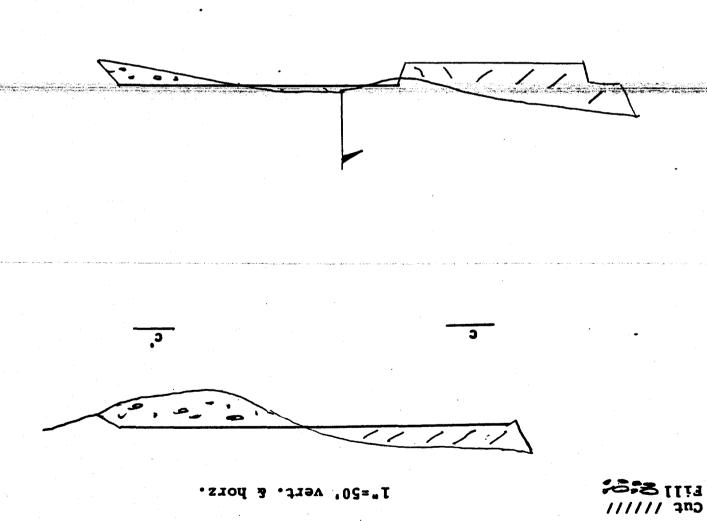
ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT

TOWNSHIP 41S, RANGE 25E

SAN JUAN COUNTY, UTAH

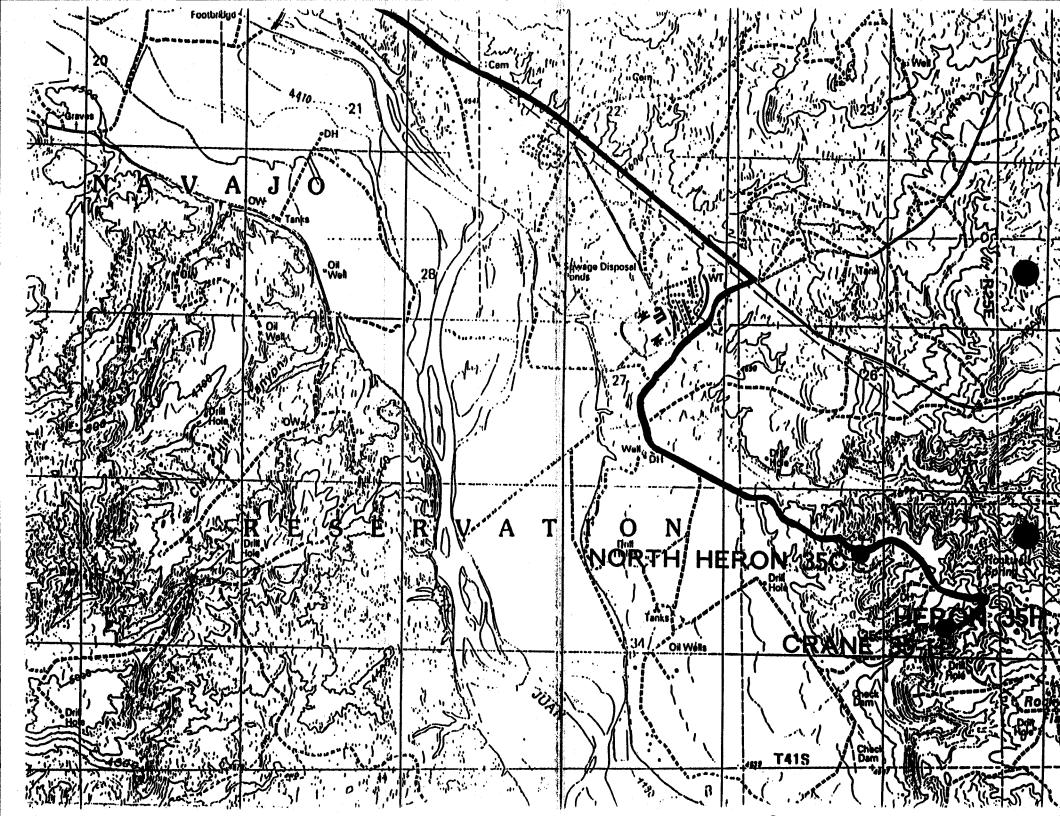
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Crane 35 - H



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SEC SENE 35 T 415 R D.SE COUNTY Lan	Tuan
43.037-31606 Indian (a) API NUMBER TYPE OF LEASE	
CHECK OFF:	
PLAT	NEAREST WELL
LEASE FIELD SLBM	POTASH OR OIL SHALE
exatis Permit :09-1704 (To4790) 09-1703 (To479) Exception Vocation requested	' 🦴 🕦
	•
APPROVAL LETTER:	§C.
SPACING: R615-2-3 NA UNIT	R515-3-2
CAUSE NO. & DATE	R615-3-3
STIPULATIONS:	e e e e e e e e e e e e e e e e e e e
	CONFIDENTIA PERIOD
	EXPIRED ON 12-19-92



Division Director

State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utan 84180-1203 801-538-5340

June 10, 1991

Chuska Energy Company 3315 Bloomfield Highway Farmington, New Mexico 87401

Gentlemen:

Re: Crane 35-H Well. 2635 feet from the North line, 1150 feet from the East line. SE NE, Section 35, Township 41 South, Range 25 East, San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Utah Admin. R.6I5-3-3.

In addition, the following actions are necessary to fully comply with this approval:

- 1. Spudding notification within 24 hours after drilling operations commence.
- 2. Submittal of Entity Action Form 6, within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
- 3. Submittal of the Report of Water Encountered During Drilling, Form 7.
- 4. Prompt notification in the event it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (80I) 538-5340, (Home) 571-6068, or J. L. Thompson, Lead Inspector, (Home) 298-9318.
- 5. Compliance with the requirements of Utah Admin. R.6l5-3-20, Gas Flaring or Venting.

Page 2 Chuska Energy Company Crane 35-H June 10, 1991

- 6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of Drinking Water/Sanitation, telephone (80I) 538-6159.
- 7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31626.

Sincerely,

Associate Director, Oil & Gas

tas Enclosures

cc: Bureau of Land Management Bureau of Indian Affairs

J. L. Thompson

we14/1-6

SPUDDING INFORMATION

NAME OF COMPANY:	CHUSKA ENERG	Y COMPA	NY · .			 .
WELL NAME:	CRANE ·35H					describition of the second of
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STATE OF UTAH DIVISION OF OIL, GAS AND MINING ENTITY ACTION FORM - FORM 6

OPERATOR CHUSKA ENERGY COMPANY	OPERATOR ACCT. NO. N 9290
ADDRESS	

Phone No.

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D	- Re-assigr	n well from	one existing enti mments section)	ty to a new entity					Title		Date

NOTE: Use COMMENT section to explain why each Action Code was selected.

UTAH DRILLING PROGRESS SAN JUAN COUNTY CONTINUED

3*			
CHUSKA ENERGY 31K BURRO IC 43-037-70063-91	31-41S-24E NW NE SE 2305 FSL 1120 FEL	WILDCAT; CONFIDENTIAL, (FR 12:26 91DN) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO, 80203 PHONE (303) 863-7021; LOCATION DATA: 1 1/2 MI SW ANETH GREATER FLD(PARADOX/ISMAY/DES CRK) 7 1/2 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102.	WF
CHUSKA ENERGY 31G JACK IC 43-037-70067-91	31-41S-24E SE SW NE 2170 FNL 1390 FEL	WILDCAT; CONFIDENTIAL, (FR 12:26:91DN) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO, 80203 PHONE (303) 863-7021; EL: 4924 GR; LOCATION DATA: 1 1/4 MI SW ANETH GREATER FLD(DES CRK/ISMAY/PARADOX) 7 3/4 MI W-SW ANETH, UT; AMMANN BASE MAP UT-102, WELL ID CHANGES: RGE CHGD FROM 26E.	WF
CHUSKA ENERGY 31-K-1 MULE IC 43-037-70021-91 CONTR: AZTEC WELL SR	31-41S-24E SE NE SW 1650 FSL 2030 FWL VCG, RIG #184;SPUD: 10/13/9 003-6029, S 240 BOPD, 6161	WILDCAT; 5877, (FR 04/01/91DN) OPER ADD: 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4939 GR; LOCATION DATA: 1 MI W OF ANETH GREATER FLD(DESERT CREEK/PARADOX/ ISMAY) 14 MI SE BLUFF, UT; AMMANN BASE MAP UT-9, WELL ID CHANGES: WELL NUMBER CHGD FROM 31K. 11 (EST), CSG: RAN SURF & PROD CSG; 6161 TD, (TD REACHED: 11/ 05/91); PROD TD, SI, TITE HOLE (LDIR 02/18/92)	WF TEST(S):
CHUSKA ENERGY 31M MULE IC 43-037-70066-91 LOC;	31-41S-24E SE SW SW 580 FSL 1090 FWL	WILDCAT; CONFIDENTIAL, (FR 12/26/910N) OPER ADD: 1775 SHERMAN STE 1880, DENVER, CO, 80203 PHONE (303) 863-7021; EL: 4885 GR; LOCATION DATA: 1 1/2 MI SW ANETH GREATER FLD(ISMAY/DES CRK/PARADOX) 8 1/4 MI W-SW ANETH. UT; AMMANN BASE MAP UT-102,	WF
CHUSKA ENERGY 31N MULE IC 43-037-70022-91 LOC;	31-41S-24E NE SE SW 740 FSL 2585 FWL	WILDCAT; 5959, (FR 04/01/91DN) OPER ADD: 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NM, 87401 PHONE (505) 326-5525, EL: 4943 GR; LOCATION DATA: 1 MI W OF ANETH GREATER FLD(PARADOX/DESERT CREEK/ ISMAY) 14 MI SE BLUFF, UT; AMMANN BASE MAP UT-9,	WF
CHUSKA ENERGY 1 OAK 11G API 43-037-31548 LOC;	11-41S-25E SE SW NE 2260 FNL 1520 FEL IC 430377007390	WILDCAT; 5701 DESERT CREEK, (FR 08/06/90DN) OPER ADD: BOX 780. FARMINGTON, NM, 87499 PHONE (505) 326-5525; EL: 4551 GR; LOCATION DATA: 1 MI SW ANETH GREATER FLD(PARADOX) 22 1/2 MI E-SE BLUFF, UT; AMMANN BASE MAP UT-9, POMCO MAP U-84, PERMIT REISSUED: 07/23/91	WF
GIANT EXPL & PROD	22-41\$-25E	ANETH GREATER; 5595 DESERT CREEK, (FR 07/26/91FM) OPER ADD:	D



NE SW SW 832 FSL 746 FWI IC 430377004891

BOX 2810, FARMINGTON, NM, 87499 PHONE (505) 326-3325; EL: 4582 GR: LOCATION DATA: 1 1/2 MI SE ANETH, UT; AMMANN BASE MAP UT-9,

LOC:

GIANT EXPL & PROD 27-33 SE MCELMO API 43-037-31645

27-41S-25E SW NE SW 1800 FSL 1800 FWL IC 430377.004791

ANETH GREATER: 5535 DESERT CREEK, (FR 07/26/91FM) OPER ADD: BOX 2810, FARMINGTON, NM, 87499 PHONE (505) 326-3325; EL: 4582 GR; LOCATION DATA: 2 MI SE ANETH, UT; AMMANN BASE MAP UT-9.

LOC;

CHUSKA ENERGY 33-0 CLAY HILL IC 43-037-70046-91 33-41S-25E SE SW SE 370 FSL 1750 FEL

WILDCAT; 5496, (FR 07/24/91DN) OPER ADD: 3315 BLOOMFIELD HWY, FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4533 GR; LOCATION DATA: 1 MI SW CLAY HILL FLD(DESERT CREEK) 3 MI S ANETH, UT, AMMANN BASE MAP UT-9.

CONTR: AZTEC WELL SRVCG, RIG #184; SPUD: 11/09/91, CSG: RAN SURF CSG; LOG TYPES: CWL; 5684 TD, (TD REACHED: 11/ 19/91); ... 5684 TD(TITE HOLE) (LDIR 02/25/92)

CHUSKA ENERGY 35-H CRANE API 43-037-31626

35-41S-25F SW SE NE 2635 FNL 1150 FEL IC 430377003291

80

WILDCAT; 5714, (FR 06/05/91DN) OPER ADD: 3315 BLOOMFIELD HWY. FARMINGTON, NM, 87401 PHONE (505) 326-5525; EL: 4651 GR; LOCATION DATA: 1 1/2 MI E CLAY HILL FLD(DESERT CREEK) 3 3/4 MI E-SE ANETH, UT; AMMANN BASE MAP UT-9,

WF D&A

D

WF

CONTR: AZTEC WELL SRVCG, RIG #222; SPUD: 11/04/91, CSG: RAN SURF CSG; LOG TYPES: EHCS, CNL, DLL, LDT, MSFL; LOG TOPS: MORRISON (SURF), HERMOSA 4449, ISMAY U 5303, ISMAY L 5403, GOTHIC 5448, DESERT CREEK 5474; CORE# 1 NO DESCRIPTION AVAILABLE; DRLG COMMENTS: LOCAL CALLS(LOG): HOVENWEEP 5400, CHIMNEY ROCK 5632, 5714 TD, (DESERT CREEK) (TD REACHED: 11/ 19/91); 5714 TD(APPROX). COMP 11/19/91, D&A. HOLDING FOR DATA. . . (LDIR 02/21/92)

CHUSKA ENERGY 35C NORTH HERON 🦙 API 43-037-31616 🤛 35-41S-25E SE NE NW 900 FNL 2485 FWL IC 430377002091

WILDCAT; 5800, (FR 03/22/91DN) OPER ADD: 3315 BLOOMFIELD HWY, FARMINGTON, NM. 87401 PHONE (505) 326-5525; EL: 4747 GR; LOCATION D'ATA: 3/4 MI E CLAY HILL FLD(DESERT CREEK) 24 MI SE BLUFF, UT; AMMANN BASE MAP UT-9,

WF

CONTR: AZTEC WELL SRVCG, RIG #222;SPUD: 09/19/91, CSG: RAN SURF & PROD CSG; 5752 TD, (TD REACHED: 09/ 30/91); PROD TEST(S): PERF INT NOT RPTD, (FM NOT RPTD) F 960 BO, 300 MCFG, 32/64 CK, FTP 260/8 HRS. . . . 5752 LTD. 5751 DTD, TITE HOLE (LDIR 02/18/92)

SAN JUAN MINERALS EXPL 91-11 GOODRIDGE API 43-037-31607

7-42S-19E SE NE NE 683 FNL 151 FEL IC 430377001991 MEXICAN HAT; 450 GOODRIDGE. (FR 03/18/91DN) OPER ADD: 10970 WILLIAMS AVE, BLYTHE, CA, 92225-9414 PHONE (619) 922-2278; EL: 4192 GR; LOCATION DATA: MEXICAN HAT, UT(TOWNSITE); AMMANN BASE MAP UT-9.

D

	DI	ISION OF OIL	OF UTAH L, GAS AND	MINING		1	LAIRRE GRE ROTTERDIEL
WELL	OMPLETIC	או סף הלכם	101	858635		NOG 87	02-1116 • ALLOTESS OR TRIBE :
IL TYPE OF W	VELLE	N OR RECO				Navajo	
L TYPE OF C	ONZI TOOM.	AET . AET .	□ ", □	Other Dry W	e11	1. OHIT 462	SEMENS NAME
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2 HAME OF OPE		EN C. 14CR (L 26374. L	Other		S. FAAM OR	SMAK BEASL
Chuska Er	nergy Compa	any				D. WELL MO.	
						Crane	35H-1
1. LOCATION OF	WELL LEEPER INC	Farmington	n, N.M. 8740	01 505-326	-5525	10. FIELD A	IS POOL OR WILDCAT
2635 EN	NL, 1150' I	TET	CEDPERACE WILL S!	ng Tiets Leantlewes	ita)	Wildcar	-
At top prod.	general tebosted	EL.				08 1864	L. M., OR BLOCK AND 30:
At total depti		, <u>-</u> -				Sec. 35	5, T41S, R25E
448£	-						.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			14. AFT NO.		CSURES	12 COG NET	12 state
L 3478 17400ED	16. 34TE T.3	AEACHED : LT. DAT	43-037-31		10-24-91	San Ju	ian litah
11-4-91		i	(Place	- 1			13. ILET. CASIFORNAL
L TOTAL SEPTE. M	13 4 TVO 21.	TUE MOX :2. XB A		TIPLE COMPL	GR 4664		N/A
5684' TD		N/A	HOW H	IAMT	3816-23 81	Rotary	N/A
. PRODUCING INT	TERVALIS). OF TH	ta completion—top	. 30T.3M. NAME .	49 AND TYDI		Rocary	12 TAS MARCHINA
				,			; *** *** NEECTION.
N/A			•				SULF ISABUS
•							Yes
. 1778 ELECTRIC	: AND STREE LISE	BHC Son	ic/Cal/Cr-T	D-SFC7 *AS VELL	- CORES 783 C H	TScome mairies	SCAME TRYSUS
IL/FDC/GR/	: AND STREE LISE	* ^{AGA} BHC Son 1/Mcfc/Ca1/G	ic/Cal/Cr-T r	D-SFC7 VAS VELI	2# FEST YESC ≪	T_{Scorme wassesses C_1Scormewoos 1,400	Yes
TIPE ELECTRIC NL/FDC/GR/ CASING SIZE	Cal/Lpt/Dl	BHC Son 1/Mcfc/Ca1/G	ic/Ca1/Cr-T r xc 385083 (<i>Re</i> s	D-SFC7 *AS VELL	2# FEST YESC ≪	C (See roune lues	Yes Yes
L/FDC/GR/	Cal/Lpt/Dl	BHC Son 1/Mcfc/Ca1/G	ic/Cal/Cr-T r NG RECORD (Res	D-SFC7 VAS VELI DRILL ST GET All SEPTINGS SEE IN	EM FEST YESS NO MEELS CEMENTING	C AECORÓ	Yes Yes
L/FDC/GR/	Cal/Lpt/Dl	BHC Son 1/Mcfc/Cal/G CAS:	ic/Ca1/Cr-T r xc 385083 (<i>Re</i> s	D-SFC7 PAS VELL DAILL ST. DEF All strings set in LE SIZE /411 265	EMPEST YEST SO GEMENTING SX 1G1 CO	ment & 1/4	Yes Yes
NL/FDC/GR/	Cal/Lpt/Dl	BHC Son 1/Mcfc/Cal/G CAS:	ic/Cal/Cr-T r NG RECORD (Res	D-SFC7 vas veli Deall strings set in LE SIZE /411 265	Sx 'G' ce	e access ment & 1/4 & 2% CaCl	Yes Yes Yes
NL/FDC/GR/ CASING SIZE 5/8" k=55	Cal/Lpt/Dl	BHC Son 1/Mcfc/Ca1/G CAS: 507	ic/Cal/Cr-T r MG RECORD (Res F (MS) MO	D-SFC7 vas veli partil strings set in LE SIZE /4" 265 SX (Circ	Sx 'G' ce Celloflake	ment & 1/4	Yes Yes Yes
ITPE ELECTRIC NL/FDC/GR/ CASING SIZE 5/8" k=55	Cal/Lpt/Dl	BHC Son 1/Mcfc/Ca1/G CAS: 507	ic/Cal/Cr-T r MG RECORD (Res	D-SFC7 vas velis cantilist carrate attringo set in LE SIZE /4" 265 Sx (Sx 'G' ce Celloflake culated ce	ment & 1/4 & 2% CaC1 ment to su	Yes Yes Yes Yes Yes AMOGST FOLIA # 2.: rface
NL/FDC/GR/	Cal/Lpt/Dl	BHC Son 1/Mcfc/Ca1/G CAS: 507	ic/Cal/Cr-T r MG RECORD (Res	D-SFC7 vas veli partil strings set in LE SIZE /4" 265 SX (Circ	Sx 'G' ce Celloflake	ment & 1/4 & 2% CaCl	Yes Yes Yes Yes Trace
IL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	LINER RECORD	ic/Cal/Cr-T r MG RECORD (Res	D-SFC7 vas velis cantilist carrate attringo set in LE SIZE /4" 265 Sx (Sx 'G' ce Celloflake culated ce	ment & 1/4 & 2% CaC1 ment to su	Yes Yes Yes Yes Trace
TIPE ELECTRIC IL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl	LINER RECORD	ic/Cal/Cr-T r MG RECORD (Res	D-SFC7 vas veli Daili st. der all strings set in LE SIZE /411 265 SX (Circ SCREEN (ND)	Sx 'G' ce Celloflake culated ce	ment & 1/4 & 2% CaCl ment to su TUBING RECORD	Yes Yes Yes Yes I AMOGET POLICE # 2. rface
L/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	LINER RECORD	ic/Cal/Cr-T r MG RECORD (Res	D-SFC7 vas veli Daili st. der all strings set in LE SIZE /411 265 SX (Circ SCREEN (ND)	Sx 'G' ce Celloflake culated ce co.	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes Imposer Folia # 2. rfaice RO PACKER SET (#5
TIPE ELECTRIC IL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	BHC Son 1/Mcfc/Ca1/G CAS: 507 LINER RECORD	ic/Cal/Cr-T r MG RECORD (Res 12 1	D-SFC7 vas veli Deall strings set in LE SIZE /4" 265 SX C Circ I SCREEN (ND) (Sx 'G' ce Celloflake culated ce co.	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes Trace
TIPE ELECTRIC NL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	LINER RECORD	ic/Cal/Cr-T r NG RECORD (Res 12 1	D-SFC7 vas veli Deall strings set in LE SIZE /411 265 SX C Circ SCREEN (ND)	Sx 'G' ce Celloflake culated ce co.	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes Impost Folia # 2. rface RO PACKER SET (#5
NL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	BHC Son. 1/Mcfc/Ca1/G CAS: 507 LINER RECORD MOTOM (MO)	ic/Ca1/Cr-T r MG RECORD (Res 10 12 1	D-SFC7 vas veli Deall strings set in LE SIZE /411 265 SX C Circ SCREEN (ND)	Sx 'G' ce Celloflake culated ce co. snr	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes AMOGRIT FOLIS # 2. rface RO PACKER SET (NO
CASING SIZE 5/8" k-55	Cal/Lpt/Dl Sticke: 36	BHC Son. 1/Mcfc/Ca1/G CAS: 507 LINER RECORD MOTOM (MO)	ic/Cal/Cr-T r MG RECORD (Res 10 12 1	D-SFC7 VAS VELLE DAILL ST. OFF All strings set in LE SIZE /4" 265 SX C Circ I SCREEN (NO) I SCREEN (NO) J SCREEN (NO) J SCREEN (NO)	Sx 'G' ce Celloflake culated ce co. snr	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes Impost Folia # 2. rface RO PACKER SET (#5
CASING SIZE 5/8" k-55	Cal/Lpt/D1 FLIGHT: 36 TOP (MD)	BHC Son. 1/Mcfc/Ca1/G CAS: 507 LINER RECORD MOTOM (MO)	ic/Cal/Cr-T r MG RECORD (Res 10 12 1	D-SFC7 vas veli Daill str Daill	Sx 'G' ce Celloflake culated ce sizz D. SHOT. FRAC	ment & 1/4 & 2% CaCl ment to su TUSING RECORD SEPTE SET (NO	Yes Yes Yes Yes Yes I AMOGET POLITY # 2. Iffice RO I PACETE IST (#3 SQUETTY ETC. OF MATERIAL TOES TATUE (************************************
NL/FDC/GR/ CASING SIZE 5/8" k-55	Cal/Lpt/D1 FLIGHT: 36 TOP (MD)	BHC Son 1/Mcfc/Ca1/G CAS: 507 LINER RECORD SEP	ic/Cal/Cr-T r MG RECORD (Res 10 12 1	D-SFC7 vas veli Daill str Daill	Sx 'G' ce Celloflake culated ce sizz D. SHOT. FRAC	ment & 1/4 & 2% CaC1 ment to su TUBING RECO	Yes Yes Yes Yes Yes AMOGRI POLITI # 2. rface RO PACKER SET (MO SQUETTE ETC. OF MATERIAL TORO ATTUR (Producing Profile)
CASING SIZE 5/8" k-55 ALTE FEAFORATION RE	Cal/Lpt/D1 FIGHT : 36 TOP (MD)	SEP	ic/Cal/Cr-Tr yG RECORD (Res 12 1	D-SFC7 vas veli Onill ST OFF all strings set in LE SIZE /411 265 SX (Circ I SCREEN (ND) (I	Sx 'G' ce Celloflake culated ce 30. SIZE D. SHOT. FRAC (MD) A	ment & 1/4 & 2% CaCl ment to su TUBING RECO	Yes Yes Yes Yes Yes Amodat Police frace Factor Service SQUETE FIC. OF MATERIAL TORO STATUS (Fractory Processing Pro
CASING SIZE 5/8" k-55	Cal/Lpt/D1 TIGHT: 36 TOP (MD)	BHC Son 1/Mcfc/Ca1/G CAS: 507 LINER RECORD SEP SEP	ic/Cal/Cr-T r MG RECORD (Res 10 12 1	D-SFC7 vas veli Onill ST OFF all strings set in LE SIZE /411 265 SX (Circ I SCREEN (ND) (I	Sx 'G' ce Celloflake culated ce 30. SIZE D. SHOT. FRAC (MD) A	ment & 1/4 & 2% CaC1 ment to su TUBING RECORD TUB	Yes Yes Yes Yes Yes AMOGRI POLITY # 2. rface RO PACKER SET (NO SQUETTE ETC. OF MATERIAL TORO AN FATUR (Producing Producing Pr

OPERATIONS MANAGER

DATE __5-27-93

Id. I hereoy certify that the foregoing and atthehed information is complete and correct an determined from all available records

SIGNED _

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in ITEM 29: "Sacks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval. ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

IEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above). cementing tool.

	Top Meas, Depth True Yert, Depth	
GEOLOGIC MARKERS	Teas. Depth	
38.	Хаме	
and the second s	<u></u>	
MARY OF POROUS ZONES Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.	Description, contents, etc.	
and contenepth inter		
s of porosity s, including d and shut in p	Bottom	
MOUS ZONES important zone 'ill-stem test open, flowing	Top	
37. SUMMARY OF POROUS ZONES Show all important z and all drill-stem t time tool open, flow	Formation	

Form 3160—4 (November 1983), (formerly 9—330) FEBUS	DEPART	UNICED MENT OF EAU OF LAND	THE IN	TERIC	urr in)R	DUPLIC (See othe struction reverse s	Pac Exp	ires Au	red. Pass No. 100 past 31, 198 Pon AMP SE	15
WELL CO	MPLETION	OR RECOM		. O	il Properti	LOG1	6. 17 190	8702÷	TIRE OR THE	
L TYPE OF WELL	₩ #1.1		DIFF.	Other	y wel	1	7. UNITE / N/A S. PARM	CREENSX	T PANS	
2. NAME OF OFERAT Chuska Ene: 3. ADDRESS OF OFER	cgy Company						Crass		5 🛣	
3315 Blooms 4. LOCATION OF WELL At surface 20	Maria Company of Association of the Company of the	50' FEL	ton, NM 87	401 50 State reg	05–32(sirement	5-5525	Wild 11. sec or at	cat	L, OR WILDCA	
At total depth		· · .	14. PERMIT NO.		DATE I	88USD	12. ceox	1	13. STAT	rs
5. DATE SPEDDED	16. DATE T.D. RE		13-037-		8. ELEV	-	San J	uan • 19.	Utah ELEV. CASING	
11/4/91 0. TOTAL DEPTH, MD 4 5684 TD	11/19/91 1 TVD 21. PLUG	P&A BACK T.D., MD a TV	D 22. IF MULT		4651	gr 466 23. INTERVA	I.S ROTARY		CABLE T	00LE
N/A	VAL(8), OF THIS C	OMPLETION—TOP, 1	BOTTOM, NAME (M	D AND TVD)•				5. WAS DIRECT M. Yes	
BHC Sonic/C CASING SIZE 5/8 K-55		FC/CNL/FDC/	G RECORD (Repo		ge set in 2.65 Sk	Sx 'G'	cement & cement to	1/4# aC12	Yes AMOUNT F	
	L	INER RECORD				30.	TUBING RI	ECORD		
81ZE	TOF (MD)	BOTTOM (MD) S	ACKS CEMENT®	SCREEN (MD)	SIZE	DEPTH SET	(MD)	PACKER 88	T (MD)
PERFORATION BECO	DED (Interval, size	and numbers;		32. DEPTH I	ACI		ACTURE, CEMI			2 D
		SFP I	0 1993						<u>د</u> ت	R
* FIRST PRODUCTION		TION METHOD (Flo		UCTION mping—siz	e and ty	pe of pump)	WE	LL STATU		Tee-
TE OF TEST	HOURS TESTED	CHOER SIEE	PROD'N. FOR	OIL-BBL.		GAS—NCF.	WATER	2 . Z	GAS-OIL BAT	ko
W. TUBING PRESS.	CASING PRESSURE	24-HOUR RATE	OIL.—BBI	GAS-	-мср.	WA.	TER-RBL.	i oire e	RAVITY-API (coes.)
DISPOSITION OF GAL	BNTS	**************************************				o o o o o o o o o o o o o o o o o o o		ACCEP	្ន	EEC S
I hereby certify to	hat the foregoing	_		per a			- ar ar	records	130 19 1-30 19	8
			Spaces (cr. A				F	APMINE	TON RESOU	NCE A

Title 18 U.S.C. Section 1001, makes it a crime for any person knowledge willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

E OF UTAH NATURAL RESOURCES

DEPARTMENT OF NATURAL RESOURCE	
DIVISION OF OIL, GAS AND MININ	NOG 8702 1116 7. Indian Allottee or Tribe Name
SUNDRY NOTICES AND REPORTS O	. m. 1 -1
Or not use this form for proposale to drill new wells; deepen existing walls; or to see	nter plugged and abandoned wells. 8. Unit or Communitization Agreement
Use: APPLICATION: FOR: PERMIT—: for each propos	N/A
1. Type of Well Oil Well Gas Well Other (specify) P & A	9. Well Name and Number Crane 35 H 1
2. Name of Operator	10. API Well Number
Chuska Energy Company	43-037-31626
3. Address of Operator	4. Telephone Number 11. Field and Pool, or Wildcat
3315 Bloomfield Highway, Farmington, N.M. 87401 5. Location of Well	505-326-5525 Wildcat
Footage : 2635' FNL, 1150' FEL QQ, Sec. T., R., M. : Sec. 35, T418, R25E	County: San Juan State: UTAH
12. CHECK APPROPRIATE BOXES TO INDIGATE NA	
NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
Abandonment New Construction Casing Repair Pull or Alter Casing Change of Plans Recompletion Shoot or Acidize Fracture Treat Vent or Flare Multiple Completion Water Shut-Off Other	Abandonment * New Construction Casing Repair Pull or Alter Casing Change of Plans Shoot or Acidize Conversion to Injection Vent or Flare Fracture Treat Water Shut-Off Other
Approximate Date Work Will Start	Date of Work Completion
	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertin locations and measured and true vertical depths for all markers and zones pertin FINAL ABANDONMENT NOTICE.	ent details, and give pertinent dates. If well is directionally drilled, give subsurface ent to this work.)
REHAB COMPLETED ON 4-18-92.	
SEP I 0 1993	
14. I hereby certify that the foregoing is true and correct	

Title OPERATIONS MANAGER Date 5-27-93

June 19905 JIN 1997 DER RTMENT	ED STATES OF THE INTERIOR AND MANAGEMENT	Budget Busses No. 1004-0135 Expires: March 31, 803-7 5. Lance Designation and Serial No.
The state of the s	er en	NOG-8702-1116 becker
Do not use this form for proposals to drill	or to deepen or reentry to a different reservoir. PERMIT—" for such proposals	6. If Indian, Allottes or Tribe Name NAVAJO TRIBAL
SUBMIT	N TRIPLICATE	7. If Unit or CA, Agreement Design
t. Type of Well Cas. Well Well Other		8. Well Name and No.
2. Name of Operator		CRANE 35 H 1
CHUSKA ENERGY COMPANY		9. API Well No.
3. Address and Telephone No. 3315 BLOOMFIELD HIGHWAY, FARMIN	GTON, NEW MEXICO 87401	43-037-31626
4. Location of Well (Footage, Sec., T., R., M., or Survey Desc		WILDCAT
2635' FNL, 1150' FEL S35-41S-25E	CONFIDENTIAL	11. County or Parish, State
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPO	SAN JUAN COUNTY, UT
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection
	Other	Dispose Water
	pertinent details, and give pertinent dates, including estimated date of starting	(Note: Report results of multiple completion Completion or Recompletion Report and L
FINAL ABANDONMENT NOTICE. REHAB COMPLETED ON 4-18-92.	NCCEPTED FOR RECORD TAXBURGEOURGE AREA TAXBURGEOURGE AREA	92 HAY 26 PHI2: 48
	ANIM 10 1992	£ ∞ ∴ ∴
	EARTHMETON, NEW MEMOR	
	N Dues Comment	
, . , _	- 1 () 編 4 7 m - 1 () () () () () () () () () (
4. I hereby certify that the foregoing is true and confect Signed The Helican	Title OPERATIONS MANAGER	Date _5-15-92
(This space for Ecderal or State office use)		
Approved by	Title	Datc
Conditions of approval, if any:		

E OF UTAH

DIVISION OF OIL, GAS AND MININ		NOG 8702–1116
SUNDRY NOTICES AND REPORTS O	N WELLS	7. Indian Allottee or Tribe Name Navajo Tribal
Do not use this form for proposals to drill new wells; deepen existing walls; or to res	oter plugged and abendoned wells:	8. Unit or Communitization Agreement
Use APPEIGATION FOR PERMIT—Are such propor		N/A
1. Type of Well		9. Well Name and Number
☐ Oil ☐ Gas ☐ Other (specify) P & A		Crane 35H-1
2. Name of Operator		10. API Well Number
Chuska Energy Company		43-037-31626
3. Address of Operator	4. Telephone Number	11. Field and Pool, or Wildcat
3315 Bloomfield Highway, Farmington, N.M. 87401	505-326-5525	Wildcat
5. Location of Well Footage : 2635 FNL, 1150 FEL		
05 5/10 505	County	: San Juan
	State	: UTAH
12. CHECK APPROPRIATE BOXES TO INDIGATE NA		
NOTICE OF INTENT (Submit in Duplicate)	SUBSE (Submit	EQUENT REPORT Original Form Only)
Abandonment New Construction	☐ Abandonment *	☐ New Construction
Casing Repair Pull or Alter Casing	Casing Repair	Pull or Alter Casing
	Change of Plans	☐ Shoot or Acidize
Conversion to Injection Shoot or Acidize	Conversion to Injection	☐ Vent or Flare
Fracture Treat Vent or Flare	Fracture Treat	☐ Water Shut-Off
Multiple Completion Water Shut-Off	₩	U Water Shat-On
Change of Plans Recompletion Conversion to Injection Shoot or Acidize Fracture Treat Vent or Flare Multiple Completion Water Shut-Off Other	Other P&A	
Approximate Date Work Will Start	Date of Work Completion _	
	Report results of Multiple Comple on WELL COMPLETION OR REC * Must be accompanied by a cer	
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Classic state all parties		
13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertin locations and measured and true vertical depths for all markers and zones pertin	ent details, and give pertinent dates. lent to this work.)	. If well is directionally drilled, give subsurface
PLUG # MD		ATION
1 5684 '- 5303 '	250 Akah	thru U.Ismay
2 4202'-4302'	96 Herm	
3 2425'-2525'	96 DeCh	elly
4 1140'-1240'	96 Chin	le ·
5 457'-557' Base Surf. Csg.	84	
6 25 SXS @ SFC	75	
All plugs were Class'G' Neat cement. Plugs 6 displaced with mud.	& 7 contained 2% CaC	12. All plugs were
Intent to plug notification to BLM on $11-20-91$ was issued on the answering machine.	, at 4:30 P.M., by J	im Myers. Message
4. I hereby certify that the foregoing is true and correct		
Name & Signature BARRY A. W	ZIELAND Title OPERAT	CONS MANAGER Date 5-27-93
State Use Only)		

SEP | 0 1993

61,6388

(8/90)

See instructions on Reverse Side

이 집에 가는 사람들은 가게 되었다.	ARTMEN F NATURAL RESOUR		6. Lease Designation and Serial Number NOG 8702-1116 7. Indian Allettee or Tribe Name
Several services and the services are services and the services and the services and the services are services and the services and the services and the services are services and the services and the services are services and the services and the services are services are services and the services are services are services and the services are services ar			Navajo jija al
			*8. Unit or Communitization Agreement
			This report form shall be used
E Name of Company	& P (places) report the surper	The state of the	9. Well Name and Number Crane 35H-1
Chuska Energy Company			10. API Well Number 43-037-31626
3. Address of Operator		4. Telephone Number	43-037-31626 11. Field and Pool, or Wildest
3315 Bloomfield Hwy, F	armington, N.M. 87401	505-326-5525	Wildcat
QQ, Sec, T., R., M. : Sec. 3	FNL, 1150' FEL 5, T41s, R25E HANGEROXES (AND NOVEL)	County State	;: San Juan : UTAH
NOTICE	OF INTENT in Duplicate)	SUBS	
Abandonment Casing Repair Change of Plans Conversion to Injection Fracture Treat Multiple Completion	New Construction Pull or Alter Casing Recompletion Shoot or Acidize Vent or Flare Water Shut-Off	Abandonment Casing Repair Change of Plans Conversion to Injection Fracture Treat Other	New Construction Pull or Alter Casing Shoot or Acidize Vent or Flare Water Shut-Off
Approximate Date Work Will Sta	urt	Date of Work Completion	
		Report results of Multiple Completon WELL COMPLETION OR REcommended by a celebration of the companied by a celebration of the companied by a celebration of the celeb	
13. DESCRIBE PROPOSED OR COMPL	ETED OPERATIONS (Clearly state all per	tinent details, and give pertinent dates	s. If well is directionally drilled, give subsurface
PLUG# MD	debuts for an inarkers and zones bet	tinent to this work.) KS FORMATION	
1 5684'-5303'	2.5	50 Akah thru 1	U. Ismay
2 4202'-4302'		96 Hermosa	
3 2425'-2525'	•	DeChelly	

1140'-1240' 84 Chinle 5 457'-557' Base Surf.Csg. 25 sxs @SFC 75

All plugs will be Class ${}^{t}G^{t}$ Neat cement. Plugs 6 & 7 will contain 2% CaCl2. All plugs will be displaced with mud.

14. I hereby certify that the foregoing is true and cogrect			
Name & Signature Suff. Wheler	BARRY A. WIELAND	Title OPERATIONS MANAGER	Date 5-27-93
(State Use Only)			

Co. of Oil. Cas & I

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

Dispose Water

(Note: Report results of multiple completion on " Completion or Recompletion Report and Log form

SUNDRY NOTICES AND REPORTS ON WELLS

T.	Use #APPLICATION FO	OR PERMIT—" for such proposals	Navajo Tribal
	사람이 나는 사람들이 들어들어 나가 그는 것이다.	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I. Type of Well Oil Well 2. Name of Operat	Gas Well Other	SEP I 0 1993	8. Well Name and No.
3. Address and Te	•	Eld. of Cil, cas & il	43-087-31626
4. Location of Wel	II (Footage, Sec., T., R., M., or Survey NL 1150' FEL	mington, NM 87401 505-326-5525 Description)	10. Field and Pool, or Exploratory Area Wildcat 11. County or Parish, State San Juan County, UT
12. CH	ECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE,	
TYI	PE OF SUBMISSION	TYPE OF	ACTION
	Notice of Intent Subsequent Report	Abandonment Recompletion Plugging Back Casing Repair	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off
	Final Abandonment Notice	Altering Casing	Conversion to Injection

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally dr. give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLUG#	MD		SXS	FORMATION O
#1 #2 #3 #4 #5	5684'-5303' 4202'-4302' 2425'-2525' 1140'-1240' 457'-557'	Base Surf.Csg. 25 SXS @ SFC	250 96 96 84 75	Akah thru DIsmay RECEIVED Hermosa BLM BLM Chinle G TO 1. N

All plugs were Class 'G' Neat cement. Plugs 6&7 contained 2% CaCl2. plugs were displaced with mud.

Intent to plug notification to BLM on 11-20-91 at 4:30pm by Jim Myers. Message was issued on the answering machine.

	Approved as to plugging of the well bord. Liability under bond is retained until	
14. I hereby certify that the jarcgoing is true and correct Signed	Title Sandon	Dete 1-22-91
(This space for Federal or State office use) Approved by	Title	<u> </u>
Conditions of approval, if any:		AREA MAINAGER
Tide 18 U.S.C. Section 1001, makes it a crime for any passon by or representations as to any matter within its jurisdiction.	rowingly and willfully to make to any department or agency of the Ur	nited States any filled. Recipions of fraedistric statem

Form 3160=3 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

RECEIVED TO FEB 0 3 1992

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals.

Navajo Tribal 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Gas Well Oil Well 8. Well Name and No. 2. Name of Operator Crane 35H-1 Chuska Energy Company 9. API Well No. 3. Address and Telephone No. 43-037-31626 3315 Bloomfield Highway, Farmington, NM 87401 10. Field and Pool, or Exploratory Area 505-326-5525 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Wildcat 11. County or Parish, State 2635' FNL 1150' FEL 35-41S-25E San Juan County, Uta. 12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION

Notice of Intent

Abandonment
Recompletion
Plugging Back
Plugging Back
Non-Routine Fracturing
Astering Casing Repair
Altering Casing
Other P&A

Other P&A

Other P&A

Compression to Injection
Dispose Water

(Note: Report results of multiple completion on "A

Completion or Recompletion on and Log for
The Proposed of Completed Operations (Clerity state all perspect despits and give perspect dates of stating any opposed work. If well is disponable to

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally dragive subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

PLUG#	MD	SXS	FORMATION
#1 #2 #3 #4 #5	5684'-5303' 4202'-4302' 2425'-2525' 1140'-1240' 457'- 557' Base Surf. Csg. 25 SXS @ SFC	250 96 96 84 75	Akah thruff. Lsmay Hermosa 9 NOV PARMECEIV Chinle RECEIV
All plugs will	be Class 'G' Neat cement. Plugs 6	&7 will	contain 2% Cac 2. All

All plugs will be Class 'G' Neat cement. Plugs 6&7 will contain 2% CaCl2. All plugs will be displaced with mud.

SEE ATTACHED FOR CONDITIONS OF APPROVAL

	ADDDDDDDD
14. I hereby certify that the foregoing is true and correct Signed All Amiliana	Janhar Dete 11-22-91
(This space for Federal or State office use)	
Approved by Title Conditions of approval, if any:	NOV 3 7 1991
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willful	ally to make to any department or arrancy of the United State of Religious of fraudulent states
or representations as to any matter within its jurisdiction.	ally to make to any department or agency of the United States of his nebrons of fraudulent states FARMICIUM NEU-

*See Instruction on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR

FARMINGTON RESOURCE AREA 1235 LA PLATA HIGHWAY FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 35-H Crane

CONDITIONS OF APPROVAL

- 1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
- 2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 326-6201.
- 3. Blowout prevention equipment is required.
- 4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

GENERAL REQUIREMENTS FOR

PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES FARMINGTON RESOURCE AREA

Mainger, Bureau of La d'Aronas-artir, 1816-19 Blata Mislay, romanigras, 177 Riber

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.

- 2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.
- 3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.
- 4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when CaCl₂ is used. Use the recommended slurry weight of other type cements when they are used (Class C. Pozzolan etc.).
- 5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perfs-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.
 - 5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.
- 6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer.

 Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.
- 7. Following the placement of a cement plug, the withdrawl rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

- 8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), In quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.
- 9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending 4' above the ground line) containing the information as a specified in 43 CFR 3162.6(d). Unless otherwise approved.
- 10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Fluids Surface Management Section of the Farmington Resource Area Office.

All above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

6. Lease Designation and Serial Numb	
Free Control of the C	er
NOG 8702-1116	
7. Indian Allottee or Tribe Name	20
Navajo Tribal	

DIVISION OF OIL, GASTAO TAKIN	
SUNDIVILOIMOREAND HECOMISO 	Mavajo Tribal et
2. Name of Operator Chuska Energy Company 3. Address of Operator 3315 Bloomfield Hwy, Farmington, N.M. 87401	Crane 35 H 10. API Well Number 43-037-31626
S. Location of Well Footage : 2635' FNL 1150' FEL QQ. Sec. T., R., M. : Sec. 35, T41S, R25E 12 CHECK APPROPRIATE BOXES (O IND) (7.15 N) NOTICE OF INTENT (Submit in Duplicate)	SURSECUENT REPORT
Abandonment New Construction Casing Repair Pull or Alter Casing Change of Plans Recompletion Shoot or Acidize Fracture Treat Vent or Flare Multiple Completion Water Shut-Off Other	Abandonment Similar New Construction Casing Repair Pull or Alter Casing Change of Plans Shoot or Acidize Conversion to Injection Vent or Flare Fracture Treat Water Shut-Off Other Spud/Surface Casing Date of Work Completion
Approximate Date Work Will Start	Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. "Must be accompanied by a cement verification report.

MIRU Aztec Rig #222. Spud 12 1/4" hole at 9:00 P.M., 11-4-91. Drill to 510. RU and ran 12 jts 9 5/8", 36#, K-55 ST&C Casing. Set at 507'. Cement with 265 sxs Class 'G' and 2% CaCl2 and 1/4#sk Celloflake. Good circulation of cement to surface. Notification of spud by Jim Myers to BLM, Mark Kelley, @ 7:45 A.M. on 11-4-91.

Name & Signature

OPERATIONS MANAGER Date

(State Use Only)

^{13.} DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

RECEIVED

Form 3160-5 (June 1990)

NOV 27 1991

UNITED STATES

DEPARTMENT OF THE INTERIOR

	FORM APPROVED
-	Budget Burene No. 2004-0135
	Expires: March 31, 1993

BUREAU OF	5. Lease Designation and Satisf No.			
SIMPRY MÁTICA	NOG 8702-1116			
SUNDRY NOTICES Do not use this form for proposals to de	6. If Indian, Allows or Title Name			
	ill or to deepen or reentry to a different reservoir. R PERMIT—" for such proposals			
		Navajo Tribal 7. If Unit or CA, Agreement Designation		
SUBMIT 1. Type of Well				
Oil Gas Other		8. Well Name and No.		
2. Name of Operator		Crane 35H		
Chuska Energy		9. API Well No.		
 Address and Telephone No. Bloomfield Highway, Farming 	10. Field and Pool, or Exploratory Area			
4. Location of Well (Footage, Sec., T., R., M., or Survey D		Wildcat		
•	•	11. County or Parish, State		
Section 35-T41S-R25E 2635' FNL 1150' FEL		San Juan County, Utah		
2. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION			
Notice of Intent	Abandonment	Change of Plans		
_	Recompletion	New Construction		
Subsequent Report	Plugging Back	Non-Routine Fracturing		
	Casing Repair	Water Shut-Off		
Final Abandonment Notice	Altering Casing	Conversion to Injection		
	LX One Spud/Surface Casing	Dispose Water (Note: Report results of multiple completion on Well		
2. Describe Proceed on Completed On the Complete (Clarks and Complete Compl	Pertinent details, and give pertinent dates, including estimated date of starting	Completion or Recompletion Report and Log form.)		
	al depths for all markers and zones pertinent to this work.)	g any proposed work. If well is uncertainly univer-		
MIRU Aztec Rig #222. Spud 12	1/4" hole at 9:00 pm, 11-4-91. Drill	to 510'.		
RU & ran 12 jts 9 5/8", 36#, K-	-55 ST&C Casing. Set at 507' Cement	w/265 sxs		
Notification of spud by Jim Mys	celloflake. Good circulation of cemers, to BLM, Mark Kelley @ 7:45am on l	ent to surface.		
indulification of Spud by Sim Hye	ers, to bir, mark kerrey w 7.43am on r	1-4-91.		
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•		91		
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	ACCEPTED FOR RECORD	P RE		
	AUGETTED	BCE 22		
	NOV 2 6 1991			
	NUV	YEC PH:		
	FARMINGTON RESOURCE AREA	RECEIVED BLM 9 FAREBRGTON, N.M		
	FARMING	× 53		
	BY 4			
4. I hereby certify that the foregoing is true and correct				
Signed Jerry G. Chamber	Title Production Eng.			
(This space for Federal or State office use)				
Approved by	Tide	Date		
Conditions of approval, if any:				
	·			

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, ficticious or fraudulent stor representations as to any matter within its jurisdiction.



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

September 7, 1993

State of Utah Department of Natural Resources Division of Oil, Gas and Mining 355 West North Temple 3 Triad Center, Suite 350 Salt Lake City, Utah 84180-1203 SEP 1 0 1993

DIVISION OF OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's

Reporting Requirements

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M Barnes 18M(N) Brown Hogan 1A-2 Burro 33I Clay Hill 33-0 Crane 35H Copperhead 15E D.C. Anticline 35K Heron 35H Heron 35H(A) Jack 31G Kokopelli 29I Lark 19B Lark 19B(G) Lighting Rock 2E Lizard 4M Lone Mountain Creek 12F-1 Monument 17E-2 Mule 31K Mule 31K(N) Mule 31M NW Cajon 11-1 North Heron 35C Northwest Cajon 6E North Cajon Mesa 5E-1 North Ruins 16K Red Lake 25B Tower 1F Box Canyon 5F Shalene 11K South Triangle 71 West Clay Hill 5B(A)



DIVISION OF OIL, GAS & MINING

LOGS

Barnes 18M(N) Brown Hogan 1A-2 Burro 33I Clay Hill 33-0 Copperhead 15E D.C. Anticline 35K Heron 35H Jack 31G Kokopelli 29I Lark 19B(G) Lighting Rock 2E Lone Mountain Creek 12F-1 Mule 31K(N) Mule 31M North Cajon Mesa 5E-1 North Heron 35C N.W. Cajon 1I-1 N.W. Cajon 6E Red Lake 25B West Clay Hill 5B(A)

If you should have any further questions, please don't hesitate to contact me, or Nell Lindenmeyer, at 505-326-5525.

Sincerely

Bar∕ry A. Wieland Operations Manager

Enclosures cc: Well File CURRENT

NEW

ENTITY NO. ENTITY NO.

API NUMBER

43-037-31626

Entity previously added 2-26-92. Lee

ACTION

CODE

Α

WELL 1 COMMENTS:

OPERATOR .	Chuska Energy Company	-
ADDRESS _	3315 Bloomfield Highway	_
	Farmington N M 87/01	

QQ

SENE

SC

35

WELL LOCATION TP RG

25E

41S

COUNTY

San Juan

			A . O
OBED ATOR	ACCT		N 9290
OPERATOR	ACCI.	NU.	

SPUD

DATE

11-4-91

EFFECTIVE DATE

ELL 2	COMMENTS:											
									·			
												<u>,</u>
ELL 3	COMMENTS:							<u> </u>		-		
												<u> </u>
ELL 4	COMMENTS:				· · · · · · · · · · · · · · · · · · ·		·					
ELL 5	COMMENTS:											
CTION CODES (See instructions on back of form) A - Establish new entity for new well (single well only) B - Add new well to existing entity (group or unit well) C - Re-assign well from one existing entity to another existing entity D - Re-assign well from one existing entity to a new entity E - Other (explain in comments section)		entity					Signature					
							Title			!		
OTE: Use COMMENT section to explain why each Action Code was selected.		d.	SEP 10 for6				Phone No. ()					
3/89)						100			4 <u>.</u> .			

WELL NAME

Spudded 9:00 P.M., 11-4-91. Drilled to 510'. Ran and cemented surface casing at 507'/

Crane 35H